## WHAT IS CLAIMED IS:

- A method of preventing damage to the excitable cells of a patient 1. which comprises administering to said patient during or after said patient undergoes or has undergone an ischemic event, an effective amount of a compound which increases a transient potassium (K+) current in the excitable cells of said patient.
- The method of preventing damage to the excitable cells of a 2. patient as claimed in claim 1, wherein said excitable cells are the neurons of the brain.
- The method of preventing damage to the excitable cells of a 3. patient as claimed in claim 1, wherein said excitable cells are the magnocellular neurons of the paraventricular nucleus of the hypothalamus.
- The method of preventing damage to the excitable cells of a 4. patient as claimed in claim 1, wherein said transient K+ current is IA
- The method of preventing damage to the excitable cells of a 5. patient as claimed in claim 1, wherein said transient  $K^{\scriptscriptstyle +}$  current is  $I_{\scriptscriptstyle D}$ .
- The method of preventing damage to the excitable cells of a 6. patient as claimed in claim 1, wherein said transient K<sup>+</sup> current is I<sub>A</sub> and I<sub>D</sub>.
- The method of preventing damage to the excitable cells of a 7. patient as claimed in claim 1, wherein said K+ current is ITO.

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- 8. The method of preventing damage to the excitable cells of a patient as claimed in claim 1, wherein said compound crosses the blood-brain barrier.
- 9. The method of preventing damage to the excitable cells of a patient as claimed in claim 1, wherein said compound is a vasopressin receptor antagonist.
- 10. The method of preventing damage to the excitable cells of a patient as claimed in claim 9, wherein said vasopressin receptor antagonist crosses the blood-brain barrier.
- 11. The method of preventing damage to the excitable cells of a patient as claimed in claim 1, wherein said compound is an angiotensin converting enzyme (ACH) inhibitor.
- 12. The method of preventing damage to the excitable cells of a patient as claimed in claim 11, wherein said angiotensin converting enzyme (ACE) inhibitor crosses the blood-brain barrier.
- 13. The method of preventing damage to the excitable cells of a patient as claimed in claim, wherein said compound is angiotensin-II receptor antagonist.
- 14. The method of preventing damage to the excitable cells of a patient as claimed in claim 13, wherein said excitable cells are the magnocellular neurons of the paraventricular nucleus of the hypothalamus.
- 15. The method of preventing damage to the excitable cells of a patient as claimed in claim 13, wherein said transient  $K^+$  current is  $I_A$ .

- 16. The method of preventing damage to the excitable cells of a patient as claimed in claim 13, wherein said transient  $K^+$  current is  $I_D$ .
- 17. The method of preventing damage to the excitable cells of a patient as claimed in claim 13, wherein said transient  $K^+$  current is  $I_A$  and  $I_D$ .
- 18. The method of preventing damage to the excitable cells of a patient as claimed in claim 13, wherein said angiotensin-II receptor antagonist crosses the blood-brain barrier.
- 19. The method of preventing damage to the excitable cells of a patient as claimed in claim 13, wherein said angiotensin-II receptor antagonist is losartan.
- 20. The method of preventing damage to the excitable cells of a patient as claimed in claim 13, wherein said angiotensin-II receptor antagonist is saralasin.
- 21. An in vivo method for screening for a compound that increases a transient potassium  $(K^+)$  current in the excitable cells of a patient, comprising the steps of:
  - (a) inducing schemia in a subject;
  - (b) assessing a transient K<sup>+</sup> current in said subject;
- (c) administering to said subject an effective amount of a test compound; and
- (d) assessing said transient  $K^+$  current in said subject, wherein an increase in said transient  $K^+$  current indicates that said test compound increases a transient  $K^+$  current in the excitable cells of a patient.

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- 22. An *in vitro* method for screening for a compound that increases a transient K<sup>+</sup> current in the excitable cells of a patient, comprising the steps of:
- (a) inducing an oxygen-deprived state mimicking ischemia in an isolated cell;
  - (b) assessing a transient K<sup>+</sup> current in said cell;
- (c) administering to said cell an effective amount of a test compound; and
- (d) assessing said transient  $K^+$  current in said cell, wherein an increase in said transient  $K^+$  current indicates that said test compound increases a transient  $K^+$  current in the excitable cells of a patient.